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1   Augmented reality and mobile systems II: Meeting the spirit of history 100%
Ursula Kretschmer , Volker Coors , Ulrike Spierling , Dieter Grasbon , Kerstin
Schneider , Isabel Rojas , Rainer Malaka
Proceedings of the 2001 conference on Virtual reality, archeology, and
cultural heritage November 2001

> This paper describes a research and development project for a novel
> technology, making the conveyance of cultural heritage during a historic
> sightseeing tour a unique experience. The cornerstones of this system
> are mobile augmented reality, including a hybrid tracking approach,
> intelligent queries to pose complex questions about geographical and
> historical knowledge, as well as a story engine to interactively run a
> digital story. This system involves the user in a thrilling story while
> exploring ...

2   Research sessions: query processing II: Efficient k-NN search on   100%
vertically decomposed data
Arjen P. de Vries , Nikos Mamoulis , Niels Nes , Martin Kersten
Proceedings of the 2002 ACM SIGMOD international conference on
Management of data June 2002

> Applications like multimedia retrieval require efficient support for
> similarity search on large data collections. Yet, nearest neighbor search is
> a difficult problem in high dimensional spaces, rendering efficient
> applications hard to realize: index structures degrade rapidly with
> increasing dimensionality, while sequential search is not an attractive
> solution for repositories with millions of objects. This paper approaches
> the problem from a different angle. A solution is sought in an unconvent
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Gordon B. Davis , John T. Gorgone , J. Daniel Couger , David L. Feinstein ,
Herbert E. Longenecker
ACM SIGMIS Database , Guidelines for undergraduate degree programs on
Model curriculum and guidelines for undergraduate degree programs in
information systems December 1997
Volume 28 Issue 1

4 Mobility and Wireless Access: Personalized pocket directories for   100%
mobile devices
Doron Cohen , Michael Herscovici , Yael Petruschka , Yoëlle S. Maarek , Aya
Soffer
Proceedings of the eleventh international conference on World Wide Web
May 2002
     In spite of the increase in the availability of mobile devices in the last few
     years, Web information is not yet as accessible from PDAs or WAP phones
     as it is from the desktop. In this paper, we propose a solution for
     supporting one of the most popular information discovery mechanisms,
     namely Web directory navigation, from mobile devices. Our proposed
     solution consists of caching enough information on the device itself in
     order to conduct most of the navigation actions locally (with subsecond r
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5 Multimedia: OCTOPUS: aggressive search of multi-modality data   100%
using multifaceted knowledge base
Jun Yang , Qing Li , Yueting Zhuang
Proceedings of the eleventh international conference on World Wide Web
May 2002
     An important trend in Web information processing is the support of
     multimedia retrieval. However, the most prevailing paradigm for
     multimedia retrieval, content-based retrieval (CBR), is a rather
     conservative one whose performance depends on a set of specifically
     defined low-level features and a carefully chosen sample object. In this
     paper, an aggressive search mechanism called *Octopus* is proposed which
     addresses the retrieval of multi-modality data using multifaceted
     knowledge. In parti ...

6 Logistics/transportation applications: General topics: a voice assisted   100%
simulation-animation architecture
Raymond L. Smith , Stephen D. Roberts
Proceedings of the 32nd conference on Winter simulation December 2000
     This paper introduces a software architecture that has been used to
     enable voice assistance for a simulation-animation environment by
     integrating technologies that recognize spoken language input and
     generate spoken language output. Voice assisted technology has several
     features which make user navigation within complex software
     applications easier than traditional methods, such as key-typed

commands or mouse manipulation. While this environment might be more friendly to an end user, several cha ...

7 Efficient web browsing on handheld devices using page and form summarization   100%
ACM Transactions on Information Systems (TOIS) January 2002
Volume 20 Issue 1

We present a design and implementation for displaying and manipulating HTML pages on small handheld devices such as personal digital assistants (PDAs), or cellular phones. We introduce methods for summarizing parts of Web pages and HTML forms. Each Web page is broken into text units that can each be hidden, partially displayed, made fully visible, or summarized. A variety of methods are introduced that summarize the text units. In addition, HTML forms are also summarized by displaying just the t ...

8 Knowledge encapsulation for focused search from pervasive devices   100%
Yariv Aridor , David Carmel , Yoelle S. Maarek , Aya Soffer , Ronny Lempel
ACM Transactions on Information Systems (TOIS) January 2002
Volume 20 Issue 1

Mobile knowledge seekers often need access to information on the Web during a meeting or on the road, while away from their desktop. A common practice today is to use pervasive devices such as Personal Digital Assistants or mobile phones. However, these devices have inherent constraints (e.g., slow communication, form factor) which often make information discovery tasks impractical.In this paper, we present a new focused-search approach specifically oriented for the mode of work and the constrai ...

9 Software infrastructure for parallel visualization: Jupiter: a toolkit for   100%
interactive large model visualization
Dirk Bartz , Dirk Staneker , Wolfgang Straßer , Brian Cripe , Tom Gaskins , Kristann Orton , Michael Carter , Andreas Johannsen , Jeff Trom
Proceedings of the IEEE 2001 symposium on parallel and large-data visualization and graphics October 2001

The fast increasing size of datasets in scientific computing, mechanical engineering, or virtual medicine is quickly exceeding the graphics capabilities of modern computers. Toolkits for the large model visualization address this problem by combining efficient geometric techniques, such as occlusion and visibility culling, mesh reduction, and efficient rendering.In this paper, we introduce *Jupiter*, a toolkit for the interactive visualization of large models which exploits the above mentio ...

10 Streaming 1: Optimal delivery of multi-media content over networks   100%
Arthur Allen
Proceedings of the ninth ACM international conference on Multimedia October 2001

In this paper, we describe scalable optimal methods for delivering

archived and live multi-media content from servers to multi-media client players endowed with substantial RAM or disk-based buffers. These methods result from the application of linearoptimization theory (linear programming) to the problem of how best to modulate the flow rate of constant-bit-rate (CBR) content for all sessions linking a server to its clients, in which session flow rates are subject to upper and lower bound const ...

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Journal of Educational Resources in Computing (JERIC) September 2001

12 WordsEye: an automatic text-to-scene conversion system   100%
Bob Coyne , Richard Sproat
Proceedings of the 28th annual conference on Computer graphics and interactive techniques August 2001

Natural language is an easy and effective medium for describing visual ideas and mental images. Thus, we foresee the emergence of language-based 3D scene generation systems to let ordinary users quickly create 3D scenes without having to learn special software, acquire artistic skills, or even touch a desktop window-oriented interface. WordsEye is such a system for automatically converting text into representative 3D scenes. WordsEye relies on a large database of 3D models and poses to depict ...

13 Searching the Web   100%
ACM Transactions on Internet Technology (TOIT) August 2001
Volume 1 Issue 1
We offer an overview of current Web search engine design. After introducing a generic search engine architecture, we examine each engine component in turn. We cover crawling, local Web page storage, indexing, and the use of link analysis for boosting search performance. The most common design and implementation techniques for each of these components are presented. For this presentation we draw from the literature and from our own experimental search engine testbed. Emphasis is on introduci ...

14 Educating software engineering students to manage risk   100%
Barry Boehm , Daniel Port
Proceedings of the 23rd international conference on Software engineering July 2001

In 1996, USC switched its core two-semester software

engineering course from a hypothetical-project, homework-and-exam course based on the Bloom taxonomy of educational objectives (knowledge, comprehension, application, analysis, synthesis, evaluation). The revised course is a real-client team-project course based on the CRESST model of learning objectives (content understanding, problem solving, collaboration, communication, and self-regulation). We used the CRESST cognitive demands analysis ...

15 Locally adaptive dimensionality reduction for indexing large time series databases   100%
Eamonn Keogh , Kaushik Chakrabarti , Michael Pazzani , Sharad Mehrotra
ACM SIGMOD Record , Proceedings of the 2001 ACM SIGMOD international conference on Management of data May 2001
Volume 30 Issue 2

Similarity search in large time series databases has attracted much research interest recently. It is a difficult problem because of the typically high dimensionality of the data.. The most promising solutions involve performing dimensionality reduction on the data, then indexing the reduced data with a multidimensional index structure. Many dimensionality reduction techniques have been proposed, including Singular Value Decomposition (SVD), the Discrete Fourier transform (DFT), and the Discr ...

16 Same words, different meanings: are basic IS/IT concepts our self-imposed Tower of Babel?   100%
Steven Alter
Communications of the AIS May 2000

17 Information technology, process reengineering, and performance measurement: a balanced scorecard analysis of Compaq computer corporation   100%
William F. Wright , Rodney Smith , Ryan Jesser , Mark Stupeck
Communications of the AIS February 1999

18 Knowledge encapsulation for focused search from pervasive devices   100%
Yariv Aridor , David Carmel , Yoëlle S. Maarek , Aya Soffer , Ronny Lempel
Proceedings of the tenth international conference on World Wide Web April

2001

19 Seeing the whole in parts: text summarization for web browsing on   100%
handheld devices
Orkut Buyukkokten , Hector Garcia-Molina , Andreas Paepcke
Proceedings of the tenth international conference on World Wide Web April
2001

20 Performance of a computational fluid dynamics code on NEC and Cray 100%
supercomputers: beyond 10 gigaflops
Ferhat F. Hatay
Proceedings of the 1996 ACM/IEEE conference on Supercomputing (CDROM)
November 1996
> The implementation and optimization of a production mode
> Computational Fluid Dynamics (CFD) software to NEC and Cray
> supercomputing platforms are discussed. It is intended to assess the
> impact of different computer architectures and High Power Computing
> approaches while studying a problem of engineering and scientific
> importance. The computational model solves the viscous compressible
> flow equations for high-speed wall-shear layer flows. The code is very
> versatile and has performed extremel ...

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Xuetao Li , Tong Wing Toon , Zhiyong Huang
Proceedings of the 2001 symposium on Interactive 3D graphics March 2001

22 On proxy agents, mobility, and web access   100%
Anupam Joshi
Mobile Networks and Applications December 2000
Volume 5 Issue 4

With the emerging need for ubiquitous access to information, web access from mobile clients is gaining increasing importance. Unfortunately, the underlying protocols of the web are not designed to support operations from a resource poor platform in a low bandwidth, disconnection prone environment. Efforts to create systems to support mobile browsing have typically been proxy‐based. However, such solutions have recently been criticized due to their non‐scalability. Developments in ad ...

23 Curriculum 68: Recommendations for academic programs in computer 100%
science: a report of the ACM curriculum committee on computer science
William F. Atchison , Samuel D. Conte , John W. Hamblen , Thomas E. Hull ,

Thomas A. Keenan , William B. Kehl , Edward J. McCluskey , Silvio O.
Navarro , Werner C. Rheinboldt , Earl J. Schweppe , William Viavant , David
M. Young
Communications of the ACM March 1968
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24 Effective access to large audiovisual assets based on user preferences   100%
S. Ioannou , G. Moschovitis , K. Ntalianis , K. Karpouzis , S. Kollias
Proceedings of the 2000 ACM workshops on Multimedia November 2000

Current multimedia databases contain a wealth of
information in the form of audiovisual, as well as text
data. Even though efficient search algorithms have been
developed for either media, there still exists the need for
abstract presentation and summarization of the results of
database users' queries. Moreover, multimedia retrieval
systems should be capable of providing the user with
additional information related to the specific subject of
the query, as well as suggest other topics which us ...

25 Program Transformation Systems   100%
H. Partsch , R. Steinbrüggen
ACM Computing Surveys (CSUR) September 1983
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26 The Hearsay-II Speech-Understanding System: Integrating   100%
Knowledge to Resolve Uncertainty
Lee D. Erman , Frederick Hayes-Roth , Victor R. Lesser , D. Raj Reddy
ACM Computing Surveys (CSUR) June 1980
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Empirical Research
Rob Kling
ACM Computing Surveys (CSUR) January 1980
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28 Translation of Decision Tables   100%
Udo W. Pooch
ACM Computing Surveys (CSUR) June 1974
Volume 6 Issue 2

29 Automatically extracting highlights for TV Baseball programs   100%
Yong Rui , Anoop Gupta , Alex Acero
Proceedings of the eighth ACM international conference on Multimedia

October 2000

In today's fast-paced world, while the number of channels of television programming available is increasing rapidly, the time available to watch them remains the same or is decreasing. Users desire the capability to watch the programs time-shifted (on-demand) and/or to watch just the highlights to save time. In this paper we explore how to provide for the latter capability, that is the ability to extract highlights automatically, so that viewing time can be reduced.

We focus on the sp ...

30 In search of invariants for e-business workloads   100%
Daniel Menascé , Virgílio Almeida , Rudolf Riedi , Flávia Ribeiro , Rodrigo Fonseca , Wagner Meira
Proceedings of the 2nd ACM conference on Electronic commerce October 2000

31 A pattern approach to interaction design   100%
Jan O. Borchers
Conference proceedings on Designing interactive systems : processes, practices, methods, and techniques: processes, practices, methods, and techniques August 2000
> To create successful interactive systems, user interface designers need to cooperate with developers and application domain experts in an interdisciplinary team. These groups, however, usually miss a common terminology to exchange ideas, opinions, and values.This paper presents an approach that uses pattern languages to capture this knowledge in software development, HCI, and the application domain. A formal, domain-independent definition of design patterns allows for computer su
> ...

32 Asynchronous information space analysis architecture using content and structure-based service brokering   100%
Ke-Thia Yao , In-Young Ko , Ragy Eleish , Robert Neches
Proceedings of the fifth ACM conference on Digital libraries June 2000
> Our project focuses on rapid formation and utilization of custom collections of information for groups focused on high-paced tasks. Assembling such collections, as well as organizing and analyzing the documents within them, is a complex and sophisticated task. It requires understanding what information management services and tools are provided by the system, when they appropriate to use, and how those services can be composed together to perform more complex analyses. This paper describes ...

33 Instructible information agents for Web mining   100%
Mathias Bauer , Dietmar Dengler , Gabriele Paul
Proceedings of the 5th international conference on Intelligent user interfaces
January 2000
     Information agents are intended to assist their users in locating relevant
information in vast collections of documents like the WWW. In many
cases, e.g., when trying to integrate pieces of information from
previously unrelated sources, it is not sufficient to merely identify
documents containing relevant data. Instead, information agents have to
identify the interesting portions of these documents and make them
available for further use. T ...

34 Multikey access methods based on superimposed coding techniques   100%
R. Sacks-Davis , A. Kent , K. Ramamohanarao
ACM Transactions on Database Systems (TODS) November 1987
Volume 12 Issue 4
     Both single-level and two-level indexed descriptor schemes for multikey
retrieval are presented and compared. The descriptors are formed using
superimposed coding techniques and stored using a bit-inversion
technique. A fast-batch insertion algorithm for which the cost of forming
the bit-inverted file is less than one disk access per record is presented.
For large data files, it is shown that the two-level implementation is
generally more efficient for queries with a small number of matchin ...

35 The architecture of the EXODUS extensible DBMS   100%
Michael J. Carey , David J. DeWitt , Daniel Frank , M. Muralikrishna , Goetz
Graefe , Joel E. Richardson , Eugene J. Shekita
Proceedings on the 1986 international workshop on Object-oriented
database systems September 1986
     With non-traditional application areas such as engineering design,
image/voice data management, scientific/statistical applications, and
artificial intelligence systems all clamoring for ways to store and
efficiently process larger and larger volumes of data, it is clear that
traditional database technology has been pushed to its limits. It also
seems clear that no single database system will be capable of
simultaneously meeting the functionality and performance requirements
of such a diver ...

36 Fragmented interaction: establishing mutual orientation in virtual   100%
environments
Jon Hindmarsh , Mike Fraser , Christian Heath , Steve Benford , Chris
Greenhalgh
Proceedings of the 1998 ACM conference on Computer supported
cooperative work November 1998

37 Healthcare information architecture: elements of a new paradigm   100%
Daniel J. Essin , Thomas L. Lincoln

Proceedings of the 1994 workshop on New security paradigms August 1994
An Electronic Medical Record (EMR) must provide a secure, permanent archive for an individual's medical records and also function as a multi-purpose database that supports the complex, varied activities of patient care. Meeting these objectives requires unusual flexibility in how data are retrieved and processed. Semantic and referential integrity must preserved both over time and as chunks of information are exchanged with other systems. Relationships between data entries must dete ...

38 An extensible constructor tool for the rapid, interactive design of   100%
query synthesizers
Michelle Baldonado , Seth Katz , Andreas Paepcke , Chen-Chuan Chang , Hector Garcia-Molina , Terry Winograd
Proceedings of the third ACM conference on Digital libraries May 1998

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collaboration: report of the ITiCSE '97 working group on supporting inter- and intra-institutional collaboration
Douglas Siviter , Marian Petre , Bruce Klein
ACM SIGCUE Outlook October 1997
Volume 25 Issue 4

40 GADGET: goal-oriented application design guidance for modular   100%
visualization environments
Issei Fujishiro , Yuriko Takeshima , Yoshihiko Ichikawa , Kyoko Nakamura
Proceedings of the conference on Visualization '97 October 1997

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41 Visualization of large terrains in resource-limited computing environments   **100%**
Boris Rabinovich , Craig Gotsman
Proceedings of the conference on Visualization '97 October 1997

42 VideoQ: an automated content based video search system using visual cues   **100%**
Shih-Fu Chang , William Chen , Horace J. Meng , Hari Sundaram , Di Zhong
Proceedings of the fifth ACM international conference on Multimedia
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Douglas Siviter , Marian Petre , Bruce Klein
The supplemental proceedings of the conference on Integrating technology into computer science education: working group reports and supplemental proceedings June 1997

44 A multilevel approach to intelligent information filtering: model, system, and evaluation   **100%**
J. Mostafa , S. Mukhopadhyay , M. Palakal , W. Lam
ACM Transactions on Information Systems (TOIS) October 1997
Volume 15 Issue 4
In information-filtering environments, uncertainties associated with changing interests of the user and the dynamic document stream must

be handled efficiently. In this article, a filtering model is proposed that decomposes the overall task into subsystem functionalities and highlights the need for multiple adaptation techniques to cope with uncertainties. A filtering system, SIFTER, has been implemented based on the model, using established techniques in information retrieval and artificia ...

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David Luebke , Carl Erikson
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William M. Detmer , Edward H. Shortliffe
Communications of the ACM August 1997
Volume 40 Issue 8

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Roger A. Crawfis
Proceedings of the conference on Visualization '96 October 1996

48 Visualizing search results: some alternatives to query-document   100%
similarity
Lucy Terry Nowell , Robert K. France , Deborah Hix , Lenwood S. Heath , Edward A. Fox
Proceedings of the 19th annual international ACM SIGIR conference on Research and development in information retrieval August 1996

49 Customizing information capture and access   100%
Daniela Rus , Devika Subramanian
ACM Transactions on Information Systems (TOIS) January 1997
Volume 15 Issue 1
This article presents a customizable architecture for software agents that capture and access information in large, heterogeneous, distributed electronic repositories. The key idea is to exploit underlying structure at various levels of granularity to build high-level indices with task-specific interpretations. Information agents construct such indices and are configured as a network of reusable modules called structure detectors and segmenters. We illustrate our architectu ...

50 Multiresolution analysis of arbitrary meshes   100%
Matthias Eck , Tony DeRose , Tom Duchamp , Hugues Hoppe , Michael Lounsbery , Werner Stuetzle
Proceedings of the 22nd annual conference on Computer graphics and interactive techniques September 1995

51 Protofoil: storing and finding the information worker's paper   100%

documents in an electronic file cabinet
Ramana Rao , Stuart K. Card , Walter Johnson , Leigh Klotz , Randall H. Trigg
Conference proceedings on Human factors in computing systems :
"celebrating interdependence": "celebrating interdependence" April 1994

52 The design of POSTGRES   100%
Michael Stonebraker , Lawrence A. Rowe
ACM SIGMOD Record , Proceedings of the 1986 ACM SIGMOD international conference on Management of data June 1986
Volume 15 Issue 2
> This paper presents the preliminary design of a new database management system, called POSTGRES, that is the successor to the INGRES relational database system. The main design goals of the new system are to provide better support for complex objects, provide user extendibility for data types, operators and access methods, provide facilities for active databases (i.e., alerters and triggers) and inferencing including forward- ...

53 Linguistico-statistical approach and logics applied in documentary   100%
system
Omar Larouk
Proceedings of the 1993 ACM/SIGAPP symposium on Applied computing: states of the art and practice March 1993

54 Launching the new era   100%
Kazuhiro Fuchi , Robert Kowalski , Koichi Furukawa , Kazunori Ueda , Ken Kahn , Takashi Chikayama , Evan Tick
Communications of the ACM March 1993
Volume 36 Issue 3

55 Query evaluation techniques for large databases   100%
Goetz Graefe
ACM Computing Surveys (CSUR) June 1993
Volume 25 Issue 2
> Database management systems will continue to manage large data volumes. Thus, efficient algorithms for accessing and manipulating large sets and sequences will be required to provide acceptable performance. The advent of object-oriented and extensible database systems will not solve this problem. On the contrary, modern data models exacerbate the problem: In order to manipulate large sets of complex objects as efficiently as today's database systems manipulate simple records, query-processi ...

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H Edelsbrunner , L J Guibas
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